



# Magistro UNI

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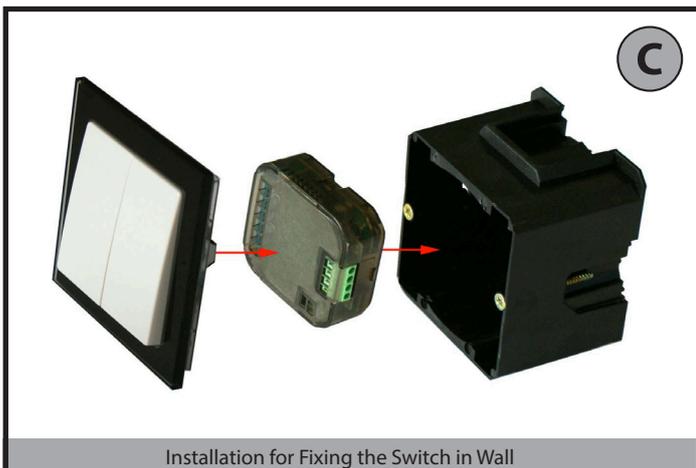
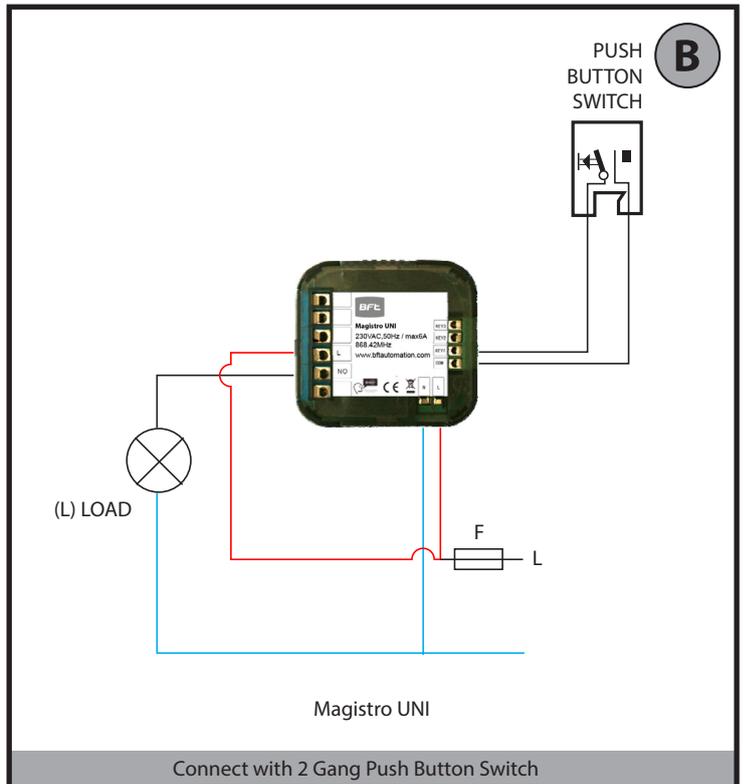
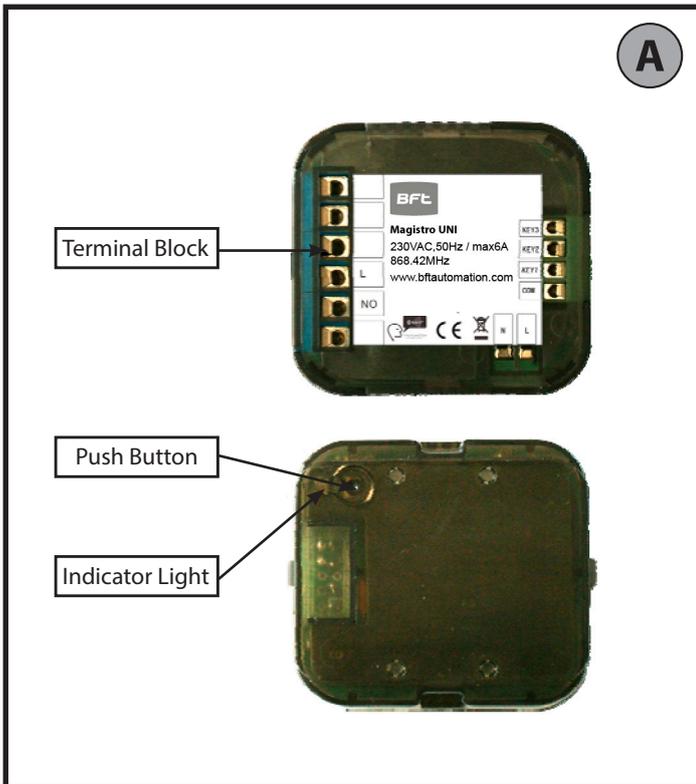
Z-WAVE NODE WITH SINGLE RELAY CONTACT



## QUICK GUIDE



AZIENDA CON SISTEMA DI GESTIONE INTEGRATO CERTIFICATO DA DNV  
= UNI EN ISO 9001:2000 =  
UNI EN ISO 14001:2004



### TECHNICAL SPECS

Normal operating voltage	230VAC,50Hz
Maximum load	max6A
Frequency range	868.42MHz
Wireless Range	Up to 30m line of sight

### Basic Operations

- The Magistro UNI can be remotely controlled.
- The Magistro UNI can be controlled by the push button on the front of the device.
- The Magistro UNI's indicator light will indicate the status of the switch.
- The Magistro UNI can connect with your existing 1 Gang push button switch with ON / OFF function.

## Mounting

1. Turn OFF power by switching off the circuit breaker or removing the fuse and test that power is off before wiring!
2. Ensure Magistro UNI capacity matches the load requirements.
3. Wall Installation: Connect it with your existing 1 Gang push button switch, please see below Wiring Diagrams.
4. Reapply power to the circuit at fuse box or circuit breaker to test the system carefully, if the indicator light on Magistro UNI blinks 30 seconds and then keep breathing, it means the installation is in good condition.
5. Turn OFF the power again.
6. For Wall Installation: Insert your push button switch together with Magistro UNI into switch box being careful not to pinch or crush wires, and secure it with screws. Reapply power to the circuit at fuse box or circuit breaker.

## Maximum load:

230VAC, 50Hz, max 6A

Wall Installation Wiring Diagram, connect with push button switch: (see Figure B, Figure C)

Please note: **A 6A external fuse before the red wire Live of the Magistro UNI switch must be installed** in the installation to protect the Magistro UNI switch overload.

(see Figure B) Red wire refers to Live IN, blue wire refers to Neutral, and black wire refers to connecting with switch.

## Network Wide Inclusion

When the Magistro UNI is not yet included in a Z-Wave network, NWI will be started automatically for 30 seconds when the Magistro UNI is switching ON.

Make sure your Z-Wave controller is in the correct operating mode (inclusion).

## Normal include or exclude

Makesure your Z-Wave controller is in the right operation mode (include or exclude). Press and hold the push button for 1 second and release or press it, very fast, 3 times, switch 1 to start the inclusion or exclusion process (indication mode: Ready for learn mode). (see Figure A)

## Manual control

connect the terminal block COM, KEY1 with your existing 1 Gang push button switch, as per the wiring diagram.

Push the push button switch to control with ON / OFF function.

## Remote control

The Magistro UNI can be remote controlled by several Z-Wave controllers or devices.

## Indication modes

The indicator gives various statuses of the device as follows:

1. automatically add: blinks 30 seconds.
2. Ready for learn mode: Indicator light Breathing.
3. Learn in progress (add): Indicator light blinks 1 time.
4. Learn in progress (remove): Indicator light blinks 1 second (8 times).
5. Learn mode success: Indicator light is on for 1 time. (and then if load is on, indicator light keep on; if load is off, indicator light keep breathing)
6. Learn mode failed: Indicator light blinks fast.

## TECHNICAL MANUAL

### Caution:

- This device is using a radio signal that passes through walls, windows and doors. The range is strongly influenced by local conditions such as large metal objects, house wiring, concrete, furniture, refrigerators, microwaves and similar items. On average, the indoor range is approximately 30 meters.
- Do not expose this product to excessive heat or moisture.
- Prevent long term exposure to direct sunlight.
- Do not attempt to repair this product. If the product is damaged or if you are in doubt about the proper operation, take the product back to the place of purchase.
- Do not clean the product with any liquid.

Normal operating voltage 230VAC, 50Hz  
Maximum load max 6A  
Frequency range 868.42MHz  
Wireless Range Up to 30m line of sight  
Storage temperature -5 °C to +65 °C  
Storage humidity 10% to 70%  
Operating temperature 0 °C to 50 °C  
Operating humidity: 30% to 80%  
Technical details

## ROUTING SLAVE

This Z-Wave product will be used as slave. Slave nodes are nodes in a Z-Wave network that receive commands and perform actions based on the command. A routing slave can route Z-Wave messages to other nodes in the network. This device is always awake and does not go to sleep mode because it is an AC powered device. This device can act as a wireless repeater to forward commands for another device in the Z-Wave network to expand the range of the network. This function works for every Z-Wave device from any manufacturer when included into the same Z-Wave network.

Unlike a normal slave a routing slave can store a number of static routes which he uses to send a routed rf frame to another node.

## Include Initiator

The include initiator is used when Primary and Inclusion Controllers include nodes into the network. When both the include initiator have been activated simultaneously the new node will be included to the network (if the node was not included previously).

## Exclude Initiator

The exclude initiator is used by Primary Controllers to exclude nodes from the network. When the exclude initiator and a slave initiator are activated simultaneously, it will result in the slave being excluded from the network (and reset to Node ID zero). Even if the slave was not part of the network it will still be reset by this action.

## Z-Wave compatibility

Because this is a Z-Wave device, it means it can co-operate with other Z-Wave devices of other manufacturers. It can co-exist in a Z-Wave network existing with product from other manufacturers.

## Hops & Retries

The Z-Wave range has a range of up to 30 meters in line of sight. This signal is not limited to the 30 meter range due to routing the Z-Wave message to other nodes in the network. This way the range of the Z-Wave network can be expanded to 150 meters indoors (limit of 4 hops).

0. not used
1. Set to default

## Description:

Set all config values to default values (factory settings).  
Read more in chapter Configuration Reset.

## Supporting Command Classes

Basic type: BASIC\_TYPE\_ROUTING\_SLAVE  
Generic type: GENERIC\_TYPE\_SWITCH\_BINARY  
Specific type: SPECIFIC\_TYPE\_NOT\_USED  
Listening: TRUE, Z-Wave Lib: 4.51

Class: 0x26 COMMAND\_CLASS\_SWITCH\_BINARY  
Class: 0x27 COMMAND\_CLASS\_SWITCH\_ALL  
Class: 0x72 COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC  
Class: 0x86 COMMAND\_CLASS\_VERSION  
Class: 0x85 COMMAND\_CLASS\_ASSOCIATION  
Class: 0x70 COMMAND\_CLASS\_MULTI\_CHANNEL\_V2  
Class: 0x2B COMMAND\_CLASS\_SCENE\_ACTIVATION  
Class: 0x2C COMMAND\_CLASS\_SCENE\_ACTUATOR\_CONF

## Configuration Reset

The Magistro UNI Supports a configuration resets function. Configuration reset means

-All configuration values are defaulted.

This function can be activated by sending a configuration set frame:

## Troubleshooting

### Frequently Asked Questions

Q: Why does the push button on the switch not work?

A: Check if the Magistro UNI is completely wiring.

Q: I can't have my Magistro UNI included into my Z-Wave network, what am I doing wrong?

A: 1. Is the controller ready to include any device into the Z-Wave network? If the controller is not in Include or exclude mode, the Magistro UNI cannot be included or excluded.

2. The Magistro UNI is already included into a Z-Wave network. Exclude this Magistro UNI and try to include it again.

Q: Why does the indicator light not work?

A: Check if the Magistro UNI is fully wiring. The indicator light will not work if there is no power supplied to the Magistro UNI.

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